## EXHIBIT A

Document 74-2

## JOINT CLAIMS CONSTRUCTION CHARTS

## DYSON AND/OR MAYTAG CONTEND REQUIRE CONSTRUCTION BY THE COURT<sup>2</sup> CLAIM TERMS FROM THE ASSERTED PATENTS<sup>1</sup> THAT

,748 ,008 ,748	Term Ass
,215 [14], ,48 [15], ,68 [1, 23]	Asserted U.S. Patent(s) and Claim(s) <sup>3</sup>
"dirty air inlet"	
"dirty air inlet" [to outer container]	Term
an opening via which the dirty air sucked up by the vacuum cleaner flows into the outer container of the cyclonic apparatus See, e.g.: ordinary meaning of the claim language '515 patent, elements 16, 58, 86; Col. 4:38-43; Col. 5:59-62; Col. 5:64-67; Col. 6:66-7:1; Col. 7:55-56; Col. 12:24-25 '748 patent, elements 13b and 13c; Col. 1:64-2:5; Col. 2:42-46; Col. 3:18-21; Col. 6:20-21 '008 patent, element 13b; Col. 2:1-4; Col. 2:59-62; Col. 3:40-41; Col. 3:63-65; Col. 4:5-6	Dyson's Proposed Construction and Intrinsic Evidence
a passage by which dirty air flows into the outer container of the cleaning apparatus See, e.g.: ordinary meaning of the claim language '515 patent, elements 16, 57, 86; col. 4, ll. 59-65; col. 5, l. 64 – col. 6, l. 2; col. 6, l. 66 - col. 7, l.1 '748 patent, element 13b; col. 3, ll. 18-19 '008 patent, element 13b; col. 2, ll. 59-62	Maytag's Proposed Construction and Intrinsic Evidence

The patents asserted in this action by Dyson are: (1) U.S. Patent No. 4,643,748 ('748 patent); (2) U.S. Patent No. 4,826,515 ('515 patent); (3) U.S. Patent No. 4,853,008 ('008 patent); and (4) U.S. Patent No. 5,858,038 ('038 patent).

The parties reserve all arguments regarding application of the doctrine of equivalents and/or prosecution history estoppel to any term of the asserted patents.

a different form of a term appears elsewhere in the claims, the constructions advanced by the parties are intended to apply, as modified appropriately to advanced by the parties are intended to apply to every instance where a construed term is used within each patent for which the term is listed. To the extent account for the difference in form. The Claims in which the terms to be construed appear are listed in brackets following the patent number. Unless otherwise indicated, the constructions

4	ω	No.	
,212 [14] ,248 [12]	,215 [14] ,218 [15] ,008 [1, 23]	**************************************	Asserted U.S. Patent(s)
"an air outlet from the container at an upper portion of the container"	"oriented for supplying dirt laden air into the container tangentially to the interior surface of the outer container"	"an upper portion of the outer container"	Cm
an air outlet in the upper half of the outer container through which the air circulating in the outer container can move from that container into the inner, cone-shaped cyclone mounted within the container  See, e.g.: ordinary meaning of the claim language '515 patent, Fig. 5; element 25; Col. 5:3- 11; element 66; Col. 5:17-18; Col. 6:8; Col. 6:13-17; elements 90 and 91; Col. 6:46-47; Col. 6:62 – 7:4; Col. 11:36- 12:12 '748 patent, abstract; element 13d; Fig. 1; Col. 1:7-9; Col. 1:23-26; Col. 2:26-38;	configured to allow dirt laden air sucked up by the vacuum cleaner to flow into the container tangentially to the interior surface of the container  See, e.g.: ordinary meaning of the claim language '515 patent, Col. 4:3-48 '748 patent, Col. 2:39-45; Col. 5:23-24; Col. 5:65-66; Col. 6:64-65 '008 patent, Col. 2:1-3; Col. 3:36-39; Col. 4:63-65; Col. 5:47-49; Col. 7:3-5		Dyson's Proposed Construction
an air outlet from the container at or near the top of the container  See, e.g.: ordinary meaning of the claim language '515 patent, Fig. 5; col. 6, l. 62 - col. 7, l. 7 '748 patent, Fig. 1; col. 3, ll. 11-26	arranged to cause dirt laden air to enter the container in a direction perpendicular to the radius of the interior surface of the outer container at its point of entry  See, e.g.: ordinary meaning of the claim language '515 patent, drawings and col. 5, ll. 64-67; col. 4, ll. 59-62 '748 patent, Fig. 1 and col. 2, ll. 14-15 '008 patent, Fig. 1 and col. 2, ll. 59-62	and Intrinsic Evidence at or near the top of the outer container  See, e.g.: ordinary meaning of the claim language '515 patent, elements 16, 57, 86 as shown in drawings '748 patent, elements 13b, 13c as shown in drawings	Maytag's Proposed Construction

6	v	Term No.
'748 [15] '008 [1, 23]	,515 [14] ,748 [15] ,008 [1, 23]	Asserted U.S. Patent(s) and Claim(s) <sup>3</sup>
"which has a circular cross section"	"a cyclone air inlet at an upper end of the cyclone in air communication with the air outlet of the container"	Term
the outer container has a circular cross section  See, e.g.: ordinary meaning of the claim language '515 patent, Figs. 1, 3 and 5; elements 14, 51 and 80; Col. 5:59-63; Col. 6:5; Col. 6:35-37; Col. 6:62-63; Col. 11:43-44 '748 patent, Fig. 8; element 11; Col. 1:58- 61; Col. 1:67 – 2:3; Col. 2:43-47; Col. 6:23-24 '008 patent, Fig. 1; element 11b; Col. 1:66 – 2:4; Col. 2:54-56; Col. 4:7-8; Col. 5:24-25; Col. 6:16-17	an air inlet near the top of the inner cyclone into which air from the outer container's air outlet can pass  See, e.g.: ordinary meaning of the claim language '515 patent, Figs. 1, 3, 5 and 6; elements 22, 63, 94 and 109; Col. 2:38-41; Col. 5:3; Col. 5:17-18; Col. 6:8; Col. 6:46- 47 '748 patent, Fig. 1; element 13f; Col. 3:18- 21 '008 patent, Fig. 1; Col. 2:59-63; Col. 2:66	Dyson's Proposed Construction and Intrinsic Evidence Col. 3:11-26; Col. 3:50-54; Col. 6:17-54
the dirty air inlet has a circular cross section  See, e.g.: ordinary meaning of the claim language '515 patent, Figs. 1, 3, 5; col. 4, II. 59-65; col. 5, I. 64 - col. 6, I. 2; col. 6, I. 57 - col. 7, I. 4 '748 patent, Fig. 1; element 13b; col. 3, II. 11-26 '008 patent, drawings; elements 13c and 14; col. 2, I. 50 - col. 3, I. 5	an air inlet at the top of the cyclone, having a first diameter, in air passing communication with the air outlet of the container  Sec, e.g.: ordinary meaning of the claim language '515 patent, Fig. 5; col. 6, l. 57 – col. 7, l. 20 '748 patent, Fig. 1; col. 3, ll. 10-26 '008 patent, Fig. 1; col. 2, ll. 50 – col. 3, l. 68; col. 3, ll. 40-56	Maytag's Proposed Construction and Intrinsic Evidence

		See and well-
<b>∞</b>	7	Term No.
,515 [14] ,48 [15] ,008 [1, 23]	,515 [14] ,748 [15] ,008 [1, 23]	Asserted U.S. Patent(s) and Claim(s) <sup>3</sup>
"the air inlet being oriented for supplying air tangentially to the surface"	"maintaining its velocity to a cone opening smaller in diameter than the diameter of the upper end of the cyclone"	Term
the air inlet to the inner cyclone being oriented such that the air flows from the outer container into the inner cyclone tangentially so that it rotates around the inner surface of the inner cyclone  See, e.g.: ordinary meaning of the claim language '515 patent, Figs. 1, 3, 5 and 6; elements 22, 63, 94 and 109; Col. 2:38-41; Col. 5:19-26; Col. 7:1-4 '748 patent, Col. 3:11-26; Col. 5:23-24; Col. 5:65-66; Col. 6:64-65 '008 patent, Fig. 4; Col. 1:62-63; Col. 3:36- 48; Col. 4:63-65; Col. 5:47-49; Col. 7:3-5	the conical shape of the cyclone assists in keeping the air flow moving as it makes its way from the air inlet at the top of the cyclone to the smaller cone opening at the bottom of the cyclone.  See, e.g.: ordinary meaning of the claim language '515 patent, Figs. 1, 3, 5 and 6; Col. 2:42-46; Col. 3:14-18; Col. 4:9-13; Col. 8:1-4 '748 patent, Fig. 1; Col. 2:9-13; Col. 3:27-42 '008 patent, Fig. 1; Col. 2:10-13	Dyson's Proposed Construction and Intrinsic Evidence
the air inlet is arranged to supply air to the surface in a direction perpendicular to the radius of the surface  See, e.g.: ordinary meaning of the claim language '515 patent; Figs. 3, 4, 5; col. 6, l. 66 – col. 7, l. 20; col. 6, ll. 9-30; col. 5, ll. 4-25 '748 patent, Fig. 1; element 13h; col. 3, ll. 11-26 '008 patent, Fig. 4; col. 3, ll. 40-56	the frusto-conical shape of the cyclone serves to keep the air flow at a constant velocity or speed as it makes its way from the air inlet at the top of the cyclone to the smaller cone opening at the bottom of the cyclone of the cyclone  See, e.g.: ordinary meaning of the claim language '515 patent, Figs. 1, 3, 5, 6; col. 2, ll. 38-63; col. 3, ll. 3-42; col. 4, ll-3-15 '748 patent, Fig. 1; col. 1, l. 64 – col. 2, l. 37; col. 3, ll. 10-42 '008 patent, Fig. 1; col. 1, l. 64 – col. 2, l. 47	Maytag's Proposed Construction and Intrinsic Evidence

			Joganski
=	10	9	Term No.
'748 [15]	·S15[14]	,748 [15] ,008 [1, 23]	Asserted U.S. Patent(s) and Claim(s) <sup>3</sup>
"a disc means provided on the outside of the cyclone intermediate the receiving chamber and the air outlet of the container and around to the longitudinal axis of the cyclone"	"means for generating an airflow"	"a dirt receiving and collecting chamber extending from the cone opening"	Term
a disc which is on the outside of the inner cyclone between the dirt collection chamber and the air outlet of the outer container and around the longitudinal axis of the inner cyclone  See, e.g.: ordinary meaning of the claim language '748 patent, Col 3:1-4; Col. 4:35-37; Col. 6:47-54; Col. 6:57-66	a motor driven fan unit and equivalents  See, e.g.,  '515 patent, elements 13, 54 and 121; Col. 2:57-63; Col. 3:32-38; Col. 4:50-54; Col. 5:57-58; Col. 6:50-55; Col. 7:19- 20; Col. 8:13-16; Col. 8:44-46	a chamber for receiving and collecting dirt that starts at the cone opening or a portion of the outer surface of the cyclone  See, e.g.: ordinary meaning of the claim language '748 patent, Fig. 1; element 15; Col. 2:18- 26; Col. 3:29-41 '008 patent, Fig. 1; element 20; Col. 3:6-21	Dyson's Proposed Construction and Intrinsic Evidence
a disc positioned on the outside surface of the cyclone, the disc having a detent in a smaller opening that engages an attachment ring on the cyclone, the disc having a downwardly tapered wall and an annular flange extending toward the inside wall of the container, the disc being midway between the receiving and collecting chamber and the air outlet of the container and around the longitudinal axis of the cyclone.  See, e.g.: 748 patent, Figs. 1 and 2; col. 3, Il. 43-54; col. 4, Il. 26-28	a motor driven fan unit positioned vertically above and immediately adjacent the cyclone outlet port  See, e.g.: '515 patent, elements 13, 54, and 121 in the specification and drawings; Figs. 1, 3, 5, 6	a chamber for receiving and collecting dirt extending from the cone opening  See, e.g.: ordinary meaning of the claim language '748 patent, Fig. 1; col. 3, Il. 27-42 '008 patent, Fig. 1; col. 3, Il. 6-21	Maytag's Proposed Construction and Intrinsic Evidence

		<u> </u>	plinatiska State odbia
14	13	12	Term No.
,008 [1, 23]	,008 [1, 23]	,008 [1, 23]	Asserted U.S. Patent(s) and Claim(s) <sup>3</sup>
"wherein the shroud means has perforations adjacent to the position intermediate to the cone opening for the flow of air from the outer container to the cyclone inlet"	"wherein the shroud means is mounted at one end below the air inlet to the cyclone and extends along the outer surface with the other end at a position intermediate to the cone opening and the air inlet to the cyclone"	"a shroud means mounted on and around the outer surface of the cyclone and having opposed ends along the longitudinal axis and providing for outlet air from the container into the air inlet to the cyclone"	Term
the shroud has perforations near the end of the shroud closest to the cone opening, so that air can pass through the perforations to the air inlet of the inner cyclone  See, e.g.:	the shroud is positioned below the air inlet to the cone-shaped cyclone and extends along the outer surface of the inner cyclone to a position somewhere before the cone opening at the bottom of the inner cyclone See, e.g.: ordinary meaning of the claim language '008 patent, abstract; Figs. 1 and 2; elements 12c, 13k, and 30; Col. 1:13-34; Col. 1:35-49; Col. 1:65-2:47; Col. 3:22-36	a shroud designed to act as an air outlet from the outer container to the air inlet of the inner cyclone which is mounted on and around the outer surface of the cone-shaped inner cyclone and has opposing ends along the longitudinal axis of the inner cyclone See, e.g.: ordinary meaning of the claim language '008 patent, Figs. 1 and 2; Col. 1:19-49; Col. 2:26-47; Col. 3:66-68; Col. 4:31-45; Col. 6:38-53	Dyson's Proposed Construction and Intrinsic Evidence
No construction required — ordinary meaning of the claim language	No construction required – ordinary meaning of the claim language	a combined integral shroud and disc unit provides for outlet air from the container into the air inlet to the cyclone, and includes a cone-shaped disc with a larger downwardly tapered portion facing the bottom of the container, the unit being tapered with walls parallel to the outside of the cyclone, the walls ending in a flange that surrounds and encloses the passage to the inner cyclone, and the disc having a downwardly inclined angle between about 97.5° to 110° from a central axis of the unit.  See, e.g.: '008 patent, Figs. 1-4; title; col. 1, Il. 14-33; col. 3, Il. 22-39	Maytag's Proposed Construction and Intrinsic Evidence

16		Ĉ	-1 h		Term No.
	(1] 860,		,008 [1, 23]		Asserted U.S. Patent(s) and Claim(s) <sup>3</sup>
	"having a tangential air inlet located at or adjacent the end of the cyclone having the larger diameter"		"disc means provided on the shroud means at a lower longitudinal extent of the shroud means and the air inlet of the cyclone and around the axis of the cyclone"		Term
See, e.g.: ordinary meaning of the claim language '038 patent, Figs. 1a and 3a; element 16; Col. 1:20-22; Col. 2:50-55	a tangential air inlet at or adjacent the end of the inner cyclone having the larger diameter, which is the end of the inner cyclone nearest the top of the container	Intrinsic Evidence: ordinary meaning of the claim language See, e.g., '748: Fig. 1; '008: Fig. 2, Col. 1:24-30; Col. 2:41-47; col. 4:35-36; Col. 4:46-48; Col. 4:46-48	a disc that surrounds the axis of the inner cyclone and touches the bottom portion of the shroud, so that the air inlet is above the shroud and the disc is at a lower longitudinal extent of the shroud	'008 patent, Figs. 1 and 2; Col. 1:35-49; Col. 1:65-2:47; Col. 3:22-36; Col. 3:57-65	Dyson's Proposed Construction and Intrinsic Evidence
Sec. e.g.: ordinary meaning of the claim language '038 patent, Figs. Ia and 3a; element 16; col. 2, I. 50 – col. 3, I. 7	having an air inlet in a direction perpendicular to the radius of the cyclone located at or adjacent the end of the cyclone having the larger diameter		No construction required – ordinary meaning of the claim language		Maytag's Proposed Construction and Intrinsic Evidence

## CLAIM TERMS FROM THE ASSERTED PATENTS ON WHICH DYSON AND MAYTAG HAVE REACHED AGREEMENT ON CONSTRUCTION

Ne.	Asserted U.S. Patent(s) and Claim(s)	Term	Agreed Construction
<b>}</b>	,515 [14] ,748 [15]	"a circular cross-sectioned cyclone"	a circular cross-sectioned device that uses centrifugal force to separate materials from the air
	,008 [1, 23]		
	,515 [14]	"a cyclone air outlet communicating	an outlet into which air within the interior
2	,748 [15]	adjacent the upper end of the cyclone"	end of the cyclone
	,008 [1, 23]		
	,515 [14]	frusto-conical shape	a cone-shape that has its tip cut off parallel
<del>د</del> ي	,748 [15]		to his pase
	,008 [1, 23]		
4	[14] \$15,	"a dirt receiving and collecting chamber extending from the bottom of the container to a portion of the outer surface of the cyclone"	a chamber for receiving and collecting dirt that extends from the bottom of the container to a portion of the outer surface of the cyclone
Vs	·515 [14]	"wherein the receiving chamber has a circular cross-sectioned inner surface around the axis with a minimum diameter furthest from the cone opening of 3 times the diameter of the cone opening"	wherein the dirt receiving and collecting chamber has a circular cross-sectioned inner surface around the axis, with a diameter furthest from the cone opening of at least 3 times the diameter of the cone opening

]			
8	7	6	Term No.
[1] 850,	,515 [14]	,515 [14]	Asserted U.S. Patent(s) and Claim(s)
"a frustoconical cyclone"	"the air flow rotating around the frusto-conical interior surface of the cyclone and the inner surface of the receiving chamber and depositing dirt in the receiving chamber"	"ring seal means between the chamber and outer container"	Term
a cone-shaped cyclone that has its tip cut off parallel to its base	[Note: The parties agree that the "receiving chamber" in this term is the "dirt receiving and collecting chamber" referenced earlier in the claim.]	a ring-shaped seal between the chamber and outer container	Agreed Construction